

1. (Currently amended) A method of forming a structure attached to a micro-fluidic channel,
channel,
comprising:
introducing a solidifiable fluid into a micro-fluidic channel
wherein the solidifiable fluid comprises a binding material;
introducing a focusing fluid into the micro-fluidic channel;
hydrodynamically focusing the solidifiable fluid using the focusing fluid; and
solidifying a portion of the hydrodynamically focused solidifiable fluid by selectively
exposing the portion to an electromagnetic radiation; and
forming a structure wherein the structure is a biocompatible coating, an internal divider wall,
or a pillar,
wherein forming the structure comprises forming a coating attached to a wall of the micro-
fluidic channel.

2. (Currently amended) The method of claim 1, wherein the solidifying step comprises solidifying the hydrodynamically focused solidifiable fluid inside the micro-fluidic channel.

3. (Previously Presented) The method of claim 2, wherein the solidifying step comprises polymerizing the hydrodynamically focused solidifiable fluid by heat rather than the electromagnetic radiation.

4. (Previously Presented) The method of claim 3, wherein the electromagnetic radiation comprises an ultraviolet radiation.

5-6. (Canceled)

20-23. (Canceled).

26-33. (Canceled).